

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,321,051 B2
APPLICATION NO. : 09/982861
DATED : January 22, 2008
INVENTOR(S) : Keiji Yurugi and Hiroko Yamaguchi

Page 1 of 4

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In column 54 and 55, please amend claim 1 line 19-25 as follows:

1. A method of producing a vinyl ether group-containing
(meth) acrylic ester represented by the following formula (1):



in the formula, R^1 represents a hydrogen atom or a methyl group, R^2 represents a straight, branched or cyclic alkylene group containing 2 to 20 carbon atoms, an alkylene group containing 2 to 20 carbon atoms and having at least one oxygen atom in the form of an ether linkage and/or an ester linkage within the structure thereof, or an aromatic group which contains 6 to 11 carbon atoms and may optionally be substituted, R^3 represents a hydrogen atom, a straight, branched or cyclic alkyl group containing 1 to 10 carbon atoms, or an aromatic group which contains 6 to 11 carbon atoms and may optionally be substituted,

with a (meth) acrylic ester represented by the following formula (3):



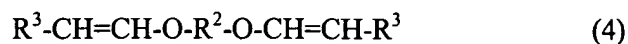
in the formula, R^1 represents a hydrogen atom or a methyl group and R^4 represents a straight, branched or cyclic alkyl group containing 1 to 8 carbon atoms and wherein said hydroxyl group-containing vinyl ether contains, as an impurity, at least one compound selected from the group consisting of a divinyl ether represented by the following formula (4):

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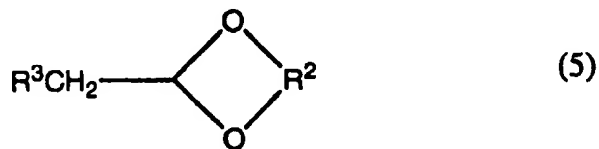
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in the formula, R^2 represents a straight, branched or cyclic alkylene group containing 2 to 20 carbon atoms, an alkylene group containing 2 to 20 carbon atoms and having at least one oxygen atom in the form of an ether linkage and/or an ester linkage within the structure thereof, or an aromatic group which contains 6 to 11 carbon atoms and may optionally be substituted, and the two R^3 groups are the same or different and each represents a hydrogen atom, a straight, branched or cyclic alkyl group containing 1 to 10 carbon atoms, or an aromatic group which contains 6 to 11 carbon atoms and may optionally be substituted, a 2-substituted-1, 3-dioxo compound represented by the following formula (5):



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in the formula, R² represents a straight, branched or cyclic alkylene group containing 2 to 20 carbon atoms, an alkylene group containing 2 to 20 carbon atoms and having at least one oxygen atom in the form of an ether linkage and/or an ester linkage within the structure thereof, or an aromatic group which contains 6 to 11 carbon atoms and may optionally be substituted, and R³ represents a hydrogen atom, a straight, branched or cyclic alkyl group containing 1 to 10 carbon atoms, or an aromatic group which contains 6 to 11 carbon atoms, and may optionally be substituted, and

an unsaturated bond-containing vinyl ether represented by the following formula (6):



in the formula, R³ represents a hydrogen atom, a straight, branched or cyclic alkyl group containing 1 to 10 carbon atoms, or an aromatic group which contains 6 to 11 carbon atoms and may optionally be substituted; R⁵ represents an organic residue containing an

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unsaturated bond represented by $-CR^6=CR^7$; and R^6 and R^7 are the same or different
and each represents a hydrogen atom or an organic residue.

Signed and Sealed this

Twenty-third Day of September, 2008

A handwritten signature in black ink, appearing to read "Jon W. Dudas". The signature is stylized with a large, looped initial "J" and a distinct "D" at the end.

JON W. DUDAS
Director of the United States Patent and Trademark Office